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10-19-99

## INTEROFFICE MEMORANDUM

Longview Fibre Company

DATE: October 19, 1999

FROM: Dave Mendenhall

TO: Tom Vaught

COPIES: RHW ADW TDC

J. Mantel WJD

SUBJECT: Annual Environmental Audit Seattle plant

On October 13, 1999 I was in Seattle and at our box plant for an environmental audit. It had been over a year since my last visit (July 98) and it was overdue. Generally the plant is in good environmental condition. The following are the items found that should be addressed:

1. The plant does have a wastewater discharge permit issued from Metro in Seattle. They have gone to a non-process water discharge mode since the start up of their Beckart system. They use most if not all of their process water back into the system to make starch. Most of the time the only water flowing from the plant is sanitary sewage. Tom Craig and I discussed the fact that even though they run in this manner, they still have an obligation to Metro to send in reports on their discharges. He said he would contact them to determine how they want us to report, since we don't have a process water discharge most of the time.
2. Their Stormwater permit expires in November of 2000. They need to send in their renewal by July of next year. They also need to update their stormwater pollution prevention plan.
3. They need to go through their MSDS list and update it. The old one is out of date.
4. They need to continue to take groundwater samples from the two remaining wells at the plant site. They got two sets of samples last year and it would be good if we could get 4 sets in 2000 so that we can go to the agencies with proof that the remediation is complete and the wells can be removed.
5. They have a couple of flammable storage cabinets in the warehouse. They should go through them and get rid of items that are not needed on the plant site. It looks like there is a lot of paint cans in them that is probably left over from old painting projects.

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6. They should get rid of the old battery powered lift truck and batteries that are stored in the warehouse. The batteries are leaking all over and should be returned to a battery dealer.
7. Labeling looks good on all the small containers around the plant, they should place signs or labels on large tanks telling what is in them such as "Waste Water", "Flexo Wash up water", etc.
8. They need to reinforce the procedures used when unloading caustic into the plant with the corrugator foremen.
9. On their Spill Prevention Control and Countermeasure plan (SPCC) they need to show the locations of all the spill kits. They also need to have signs made that show where the spill kits are in the plant site.
10. Probably the biggest item is the need to organize all of their environmental files. Since they lost their last maintenance foremen the files have been shifted around and are scattered around the plant. Jim Mantel has asked Tom Craig if he can put them into the SPC office. They have extra room and file storage space there. Tom said OK, but he wants to be sure his files and Jim's are the same. I agree with this, the main thing is to have them in a location so that they can be easily found. All of the plants "plans" SPCC, SWP3 should also be located there. Jim will work on this over the next two months.

## MATERIAL SAFETY DATA SHEET

Date: 06-20-1988

Supersedes: JUNE 30 1997

## SECTION I

## MANUFACTURER'S NAME &amp; ADDRESS

Devoe & Reynolds Co.  
4000 DuPont Circle  
Louisville, KY 40207

## PRODUCT NAME

TRU-GLAZE &amp; EPOXY GLOSS COATING COMPONENT

PRODUCT CATALOG NUMBER  
12402

## PRODUCT CLASS

EPOXY COATING

GENERAL MSDS INFORMATION: (502) 589-9340

24 HR EMERGENCY ASSISTANCE: DEVOE (502) 589-9340 (M-F 8AM-4:30PM EASTERN); CHEMTREC (800) 424-9300 (ALL OTHER TIMES)

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NO.	Percent WT.	Hazardous a b c	ACGIH TLV PPM	MS/M3	OSHA PEL PPM	MS/M3	LEL	VAPOR PRESSURE
EPOXY RESIN	2508-38-6	55		NA	NA	NA	NA	NA	NA
XYLENE	1330-20-7	30	/ /	100	335	100	335	1.0	5.1 @ 68 °F
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	10		100	350	NA	NA	1.8	2.0 @ 68 °F

HAZARDOUS ACCORDING TO: 3-SARA 302/304, 5-SARA 313, 6-CERCLA 103(a)

NA = Not Available

## SECTION III - PHYSICAL DATA

VAPOR DENSITY X-HEAVIER LIGHTER THAN AIR BOILING RANGE 248 - 304 °F POUNDS PER GALLON 8.58  
 EVAPORATION RATE FASTER X-SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 51.8

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

## FLAMMABILITY CLASSIFICATION

OSHA 29 CFR-1910.106(a)

Parts 18-19

Flammable Liquid Class I(C)

FLASH POINT 80°F SETAFLASH

LEL  
SEE SECTION IIEXTINGUISHING MEDIA: In case of fire use CO<sub>2</sub>, Dry Chemical, Foam or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Vapors may cause flash fire. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Due to pressure build-up, closed containers exposed to extreme heat may explode. Never use a welding or cutting torch on or near container (even empty) as product or its residue may ignite. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES: Summon professional firefighters. Use full protective equipment including self-contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build-up or possible auto-ignition.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

## EFFECTS OF OVEREXPOSURE

ACUTE- Breathing: Irritation of the respiratory tract; headache, nausea, dizziness, weakness and fatigue. Extreme exposure can result in unconsciousness and even respiratory arrest.

Skin or Eye Contact: Primary irritation.

Swallowing: Can cause stomach and/or intestinal irritation, nausea, vomiting and diarrhea. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

CHRONIC- Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE- None when used in accordance with Safe Handling and Use Information. (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY SKIN X-BREATHING X-SWALLOWING

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Section V Continued on Next Page

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## SECTION V - HEALTH HAZARD DATA (CONTINUED)

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### EMERGENCY AND FIRST AID PROCEDURES

- IF BREATHED:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical assistance immediately.
- IF IN EYES:** In case of eye contact, flush with large amounts of water for at least 15 minutes. Get medical assistance.
- IF ON SKIN:** In case of skin contact, wash area thoroughly with soap and water. Remove soiled clothing. Get medical assistance if irritation persists.
- IF SWALLOWED:** DO NOT INDUCE VOMITING. Consult physician immediately. Aspiration of vomitus can cause chemical pneumonitis which can be fatal.

**WARNING:** Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

## SECTION VI - REACTIVITY DATA

- STABILITY:** UNSTABLE X-STABLE
- INCOMPATIBILITY:** Avoid contact with strong oxidizing agents.
- HAZARDOUS DECOMPOSITION PRODUCTS:** May cause hazardous fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide and oxides of metals listed in Section II.
- HAZARDOUS POLYMERIZATION:** MAY OCCUR X-WILL NOT OCCUR

## SECTION VII - SPILL OR LEAK PROCEDURES

- STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition (flames, hot surfaces, and electrical, static or frictional sparks). Do not smoke. Avoid breathing vapors. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data form. Ventilate area. Contain spilled material and remove with inert absorbent and non-sparking tools. Store in closed container until properly disposed of.
- WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

## SECTION VIII - SAFE HANDLING AND USE INFORMATION

- RESPIRATORY PROTECTION:** Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas with unrestricted ventilation, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or hoods. Use NIOSH/MSHA approved respirators when cutting, welding, brazing and sanding material coated with this product. Follow respirator manufacturer's directions for respirator use.
- VENTILATION:** Use only with adequate ventilation. Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas, and to remove sanding dusts of dried coating and decomposition product during welding and flame cutting on surfaces coated with this product. Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources should be eliminated.
- PROTECTIVE GLOVES:** Do not get on skin. Solvent impermeable gloves to prevent contact are recommended.
- EYE PROTECTION:** Do not get in eyes. Solvent resistant safety eyewear with splash guards or shields is recommended to prevent contact.
- OTHER PROTECTIVE EQUIPMENT:** Do not get on skin. Solvent impermeable clothing and boots to prevent contact are recommended.
- HYGIENIC PRACTICES:** Remove and wash soiled clothing before reuse. Wash hands before eating, smoking or using the washroom.

## SECTION IX - OTHER PRECAUTIONS

- This material is part of a two component product, the mixture of the components will have the hazards of both. Observe all applicable precautions.
- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep away from heat, sparks and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120°F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. Keep out of reach of children.
- WARNING:** This product may contain a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

The information contained herein is based on data believed by Devco & Reynolds Co. to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy himself that he can meet all applicable safety and health standards. Determination of the suitability of any information or product for the use contemplated by any user, the manner of that use and whether there is any infringement of patents is the sole responsibility of the user.

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# MATERIAL SAFETY DATA SHEET

Date: 09-01-1988

Supersedes: 01A

## SECTION I

MANUFACTURER'S NAME & ADDRESS  
Devoe & Reynolds Co.  
4000 DuPont Circle  
Louisville, KY 40207

PRODUCT NAME  
TRU-BLAZE WD EPOXY GLOSS COATING  
PART A

PRODUCT CATALOG NUMBER  
12949

GENERAL MSDS INFORMATION: (502) 589-7340

PRODUCT CLASS

24 HR EMERGENCY ASSISTANCE: DEVOE (502) 589-7340 (M-F 8AM-4:30PM EASTERN); CHEMTREC (800) 424-9300 (ALL OTHER TIMES)

WATER BASED EPOXY

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NO.	Percent WT.	Hazardous a b c	ACGIH TLV PPM	ag/M3	OSHA PEL PPM	ag/M3	LEL	VAPOR PRESSURE
TITANIUM DIOXIDE	13463-67-7	40		NA	10	NA	15	NA	NA
WATER	7732-18-5	35		NA	NA	NA	NA	NA	17 368 °F
POLYAMIDE RESIN	N/A	15		NA	NA	NA	NA	NA	NA
(1)ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9	45	1	25	NA	NA	NA	1.2	1.3 377 °F
ACETIC ACID	64-19-7	45	1	10	25	10	25	4.0	11 368 °F
(2)ETHYLENE GLYCOL MONOBUTYL ETHER									
ACETATE	112-07-2	45		25	NA	NA	NA	0.89	0.29 368 °F
AQUA AMMONIA	1336-21-6	41	1	25	18	50	35	16	560 368 °F

(1) Manufacturer's TLV. TLV = skin.

(2) Manufacturer's TLV.

HAZARDOUS ACCORDING TO: a-SARA 302/304, b-SARA 313, c-CERCLA 103(a)

NA = Not Available

## SECTION III - PHYSICAL DATA

VAPOR DENSITY	X-HEAVIER	X-LIGHTER THAN AIR	BOILING RANGE	212 - 267 °F	POUNDS PER GALLON	12.31
EVAPORATION RATE	FASTER	X-SLOWER THAN ETHER	PERCENT VOLATILE BY VOLUME	64	VOC	1.72 LBS/GAL (- WATER)

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION  
OSHA 29 CFR - 1910.106(a)  
Parts 18-19  
Combustible Liquid - Class II(B)

EXTINGUISHING MEDIA: In case of fire use CO<sub>2</sub>, Dry Chemical, Foam or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Due to pressure build-up, closed containers exposed to extreme heat may explode. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES: Summon professional firefighters. Use full protective equipment: including self-contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build-up or possible auto-ignition.

FLASH POINT 200+°F SETAFLASH

LEL  
See Section II

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

EFFECTS OF OVEREXPOSURE

ACUTE- Breathing: Irritation of the respiratory tract; headache, nausea, dizziness.

Skin or Eye Contact: Primary Irritation.

Causes severe eye damage and even blindness very rapidly. Causes skin burns.

Results in severe damage to mucous membranes and deep tissues.

CHRONIC- Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE- None when used in accordance with Safe Handling and Use Information, (See Section VIII).

PRIMARY ROUTE(S) OF ENTRY X-SKIN X-BREATHING X-SWALLOWING

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Section V Continued on Next Page

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**SECTION V - HEALTH HAZARD DATA (CONTINUED)**

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**EMERGENCY AND FIRST AID PROCEDURES****IF BREATHED:** Remove to fresh air.**IF IN EYES:** In case of eye contact, flush with large amounts of water for at least 15 minutes. Get medical assistance.  
**IF ON SKIN:** Remove with soap and water. Remove soiled clothing.**IF SWALLOWED:** Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician immediately. Treat symptomatically.**SECTION VI - REACTIVITY DATA****STABILITY** UNSTABLE Y-STABLE**HAZARDOUS DECOMPOSITION PRODUCTS:** May cause hazardous fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide and oxides of metals listed in Section II.  
Fumes may also contain oxides of nitrogen.**HAZARDOUS POLYMERIZATION** MAY OCCUR X-WILL NOT OCCUR**SECTION VII - SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wash with water. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data form. Contain spilled material and remove with inert absorbent. Store in closed container until properly disposed of.**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.**SECTION VIII - SAFE HANDLING AND USE INFORMATION****RESPIRATORY PROTECTION:** Do not breathe vapors, spray mist or sanding dust. When spray applied in outdoor or open areas with unrestricted ventilation, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted ventilation areas, wear NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or hoods. Use NIOSH/MSHA approved respirators when fl cutting, welding, brazing and sanding material coated brazing and sanding material coated with this product. Follow respirator manufacturer's directions for respirator use.**VENTILATION:** Use only with adequate ventilation. Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas, and to remove sanding dusts of dried coating and decomposition product during welding and flame cutting on surfaces coated with this product.**PROTECTIVE GLOVES:** Do not get on skin. Solvent impermeable gloves to prevent contact are recommended.**EYE PROTECTION:** Do not get in eyes. Solvent resistant safety eyewear with splash guards or shields is recommended to prevent contact.**OTHER PROTECTIVE EQUIPMENT:** Do not get on skin. Solvent impermeable clothing and boots to prevent contact are recommended.**HYGIENIC PRACTICES:** Remove and wash soiled clothing before reuse. Wash hands before eating, smoking or using the washroom.**SECTION IX - OTHER PRECAUTIONS**

This material is part of a two component product, the mixture of the components will have the hazards of both.

Observe all applicable precautions.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store below 110°F and keep from freezing. Keep container closed when not in use. Do not reuse empty containers.

Keep out of reach of children.

**WARNING:** This product may contain a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

The information contained herein is based on data believed by Devco &amp; Reynolds Co. to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy himself that he can meet all applicable safety and health standards. Determination of the suitability of any information or product for the use contemplated by any user, the manner of that use and whether there is any infringement of patents is the sole responsibility of the user.

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